OPERATOR AND SERVICE MANUAL

Hausted® MBC®
Mammography/Biopsy Chair

(11/20/06) **066984**

A WORD FROM STERIS CORPORATION

This manual contains important information on proper use and maintenance of the MBC® (Mammography/Biopsy Chair). **All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual.** These instructions are important to protect the health and safety of personnel operating a MBC and should be retained in a conveniently accessible area for quick reference.

Complete instructions for uncrating and connecting utilities, as well as equipment drawings, have been furnished. If missing, contact STERIS for replacement copies, giving the serial number and model numbers of the unit.

STERIS carries a complete line of accessories for use with this stretcher. A STERIS representative will gladly review these with you.

Indications for Use

The Mammography/Biopsy Chair (MBC) is intended for use in patient treatment, transport or recovery.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

You are encouraged to contact STERIS concerning our comprehensive Annual Maintenance Agreements. Under the terms of these agreements, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure equipment performance at peak capability and to help avoid untimely or costly interruptions. STERIS maintains a global staff of well equipped, factory-trained technicians to provide this service, as well as expert repair services. Please contact your STERIS representative for details.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in Section 1 of this manual. Do not operate or service the equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty, could violate national, state, and local regulations, and could jeopardize your insurance coverage.

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Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide.

STERIS Corporation, Montgomery, Alabama is an ISO 13485 certified facility.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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LISTING OF WARNINGS AND CAUTIONS

1

The following is a listing of the safety precautions which must be observed when operating and servicing this equipment. WARNINGS indicate the potential for danger to personnel, and CAUTIONS indicate the potential for damage to equipment. These precautions are repeated (in whole or in part), where applicable, throughout the manual.

WARNING–LACERATION HAZARD:

⚠ When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

WARNINGS – PERSONAL INJURY:

⚠ Do not sit on end – tipping may occur.

UNPACKING INSTRUCTIONS

2

IMPORTANT: Report any shipping damage immediately! Inform shipper of any damages – leave carton intact. Leave the MBC Chair in the receiving area until inspection is complete.

Your MBC Chair has been carefully packaged at our manufacturing plant to ensure safe shipment to you medical facility. There are several procedures you must follow to put your new MBC Chair into service. These procedures only take a few minutes to complete and are required to ensure proper operation of the MBC Chair.

WARNING – LACERATION HAZARD: When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

Step 1 – Cut the two bands around the shipping carton.

Step 2 – Remove the top half of the carton and cut one side of the bottom half.

Step 3 – Remove the MBC Chair from the carton.

Step 4 – Check to see if all features of the stretcher work properly. If all features work properly, go to step 5. If any of the features of the Horizon Stretcher do not work properly, call STERIS for service.

Step 5 – Clean the MBC Chair using a mild detergent to remove any dirt accumulated during shipment.

Step 6 – Place the stretcher into service.

As a valued customer and user of STERIS's unique Mammography/Biopsy Chair (MBC), this Operation Manual is to ensure proper use is understood and followed to obtain maximum safety and function of your STERIS MBC.

The MBC's unequalled versatility in moving from a chair position to a fully reclined position is designed to permit convenient patient positioning and treatment. It has a maximum weight capacity of 325 lbs. The MBC is not intended to replace a stretcher or gurney, of which STERIS offers a complete product line for your specialty needs.

⚠ WARNING – PERSONAL INJURY HAZARD: Do not sit on end – tipping may occur.

STERIS's MBC has a Warning Label located at the head and foot ends of the chair's frame, stating: *Do not sit on end: Tipping may occur*.

Patient entry, egress, and transfer from the MBC should always be from the center side rail locations by lowering the side rail as shown in diagrams A and B. At no time should the patient be permitted to enter or exit from the ends of the MBC as shown on diagrams 1, 2 and 3, except in a full chair position.

NOTE: *When not in use, do not leave the MBC in a fully reclined position.*

NOTE: *Patient should be secured with restraint straps when left unattended in a fully reclined position.*

These Operating Instructions are to ensure patient safety and permit you to use your STERIS MBC to treat, transport and transfer your patient with unmatched versatility and safety.

If you have any questions, please contact STERIS's customer service department at 1-800-333-8828

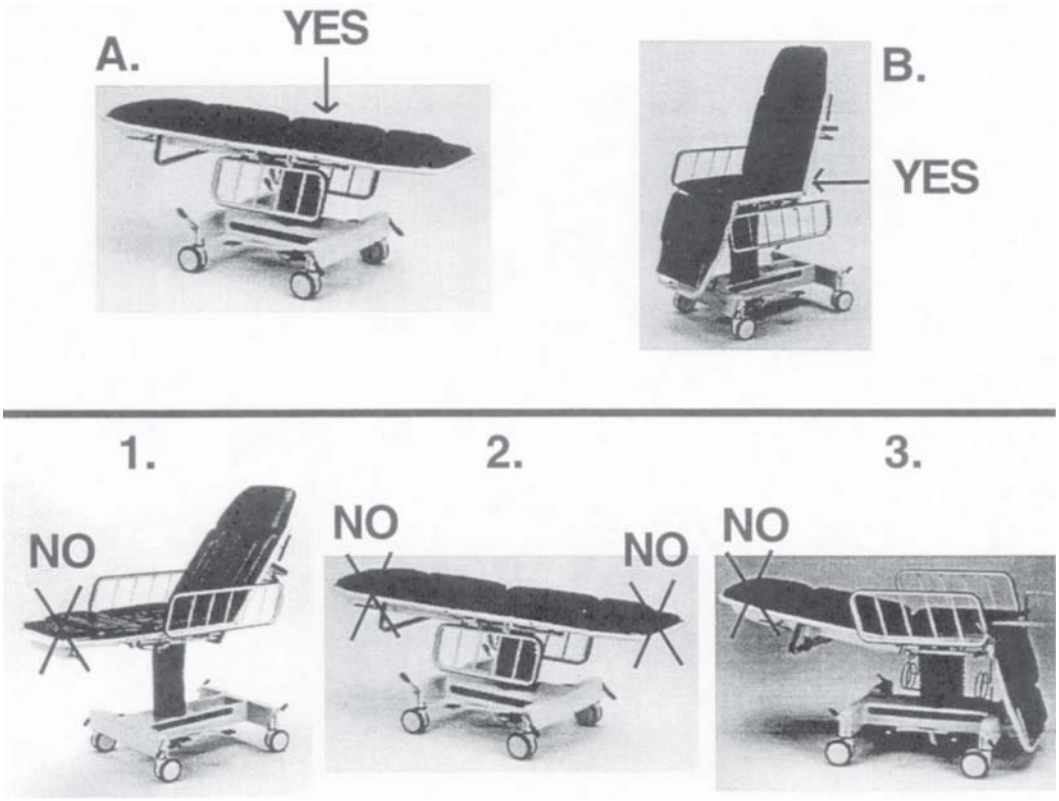
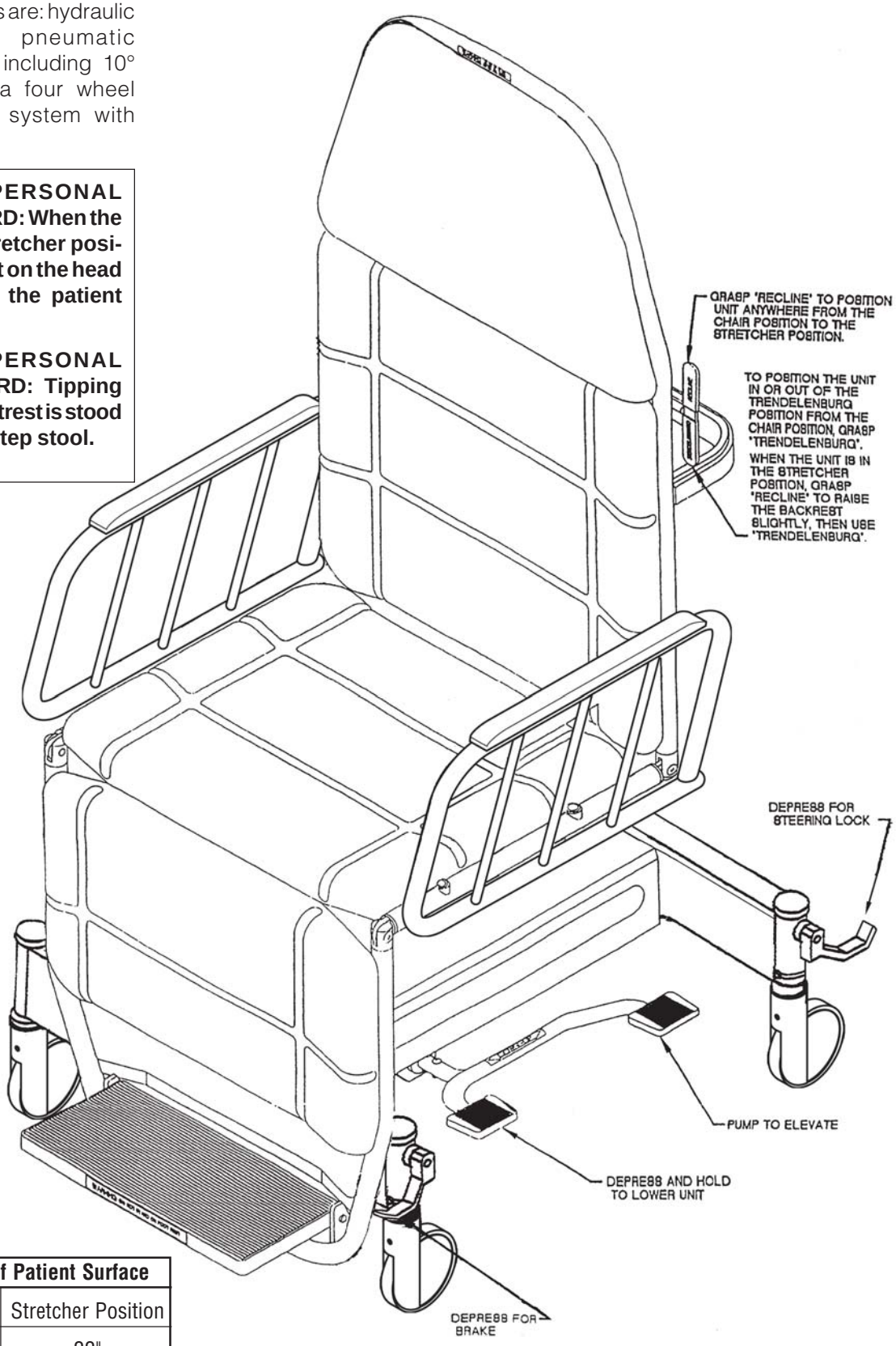


Figure 3-1

The chair specifications are: hydraulic height adjustment, pneumatic backrest adjustment, including 10° trendelenburg, and a four wheel lock caster braking system with steering lock.

WARNING – PERSONAL INJURY HAZARD: When the unit is in the stretcher position, DO NOT sit on the head or foot end of the patient surface.

WARNING – PERSONAL INJURY HAZARD: Tipping may occur if footrest is stood on or used as step stool.


GRASP 'RECLINE' TO POSITION UNIT ANYWHERE FROM THE CHAIR POSITION TO THE STRETCHER POSITION.
TO POSITION THE UNIT IN OR OUT OF THE TRENDELENBURG POSITION FROM THE CHAIR POSITION, GRASP 'TRENDELENBURG'.
WHEN THE UNIT IS IN THE STRETCHER POSITION, GRASP 'RECLINE' TO RAISE THE BACKREST SLIGHTLY, THEN USE 'TRENDELENBURG'.
DEPRESS FOR STEERING LOCK
PUMP TO ELEVATE
DEPRESS AND HOLD TO LOWER UNIT
DEPRESS FOR BRAKE

Overall Dimensions of Patient Surface		
	Chair Position	Stretcher Position
Width	22"	22"
Length	50"	70.5"

Figure 3-2

3.1 Braking And Steering Operation

3.1.1 Applying The Brakes

The four wheel central braking system is activated by depressing the RED pedal, (to approximately 45° at any corner of the unit. This locks all four of the caster wheels from rotating and swivelling. (See Figure 3-3.)

3.1.2 Releasing The Brake

Depress the GREEN pedal at any corner of the unit to a horizontal position. All four of the caster wheels should roll and swivel freely. (See Figure 3-3.)

NOTE: *Always apply the brakes when the unit is not in use.*

3.1.3 Applying The Steer Lock

From the head end of the unit depress the GREEN pedal downward, (to approximately 45°), and push the unit forward. One caster wheel at the opposite end will lock into a non-swivelling position that enables straight tracking and swivelling by the attendant. (See Figure 3-4.)

3.1.4 Releasing The Steer Lock

Depress the RED pedal to a horizontal position. All four caster wheels should swivel and roll freely. (See Figure 3-4.)

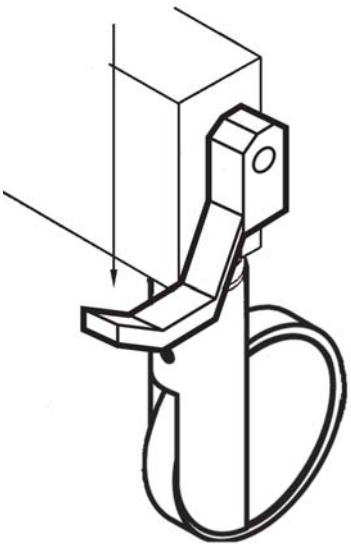


Figure 3-3

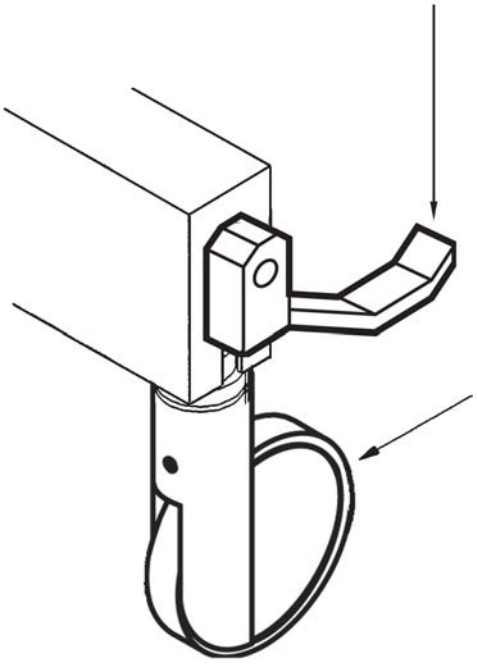


Figure 3-4

3.2 Height & Top Adjustment

3.2.1 Height Adjustment

To elevate the unit, pump the UP pedal, using smooth full strokes to insure patient comfort. (See Figure 3-5.)

NOTE: *Pedals are located on both sides of the unit.*

When the unit reaches the desired height, stop the pumping action.

NOTE: *Do not stand on the pedal.*

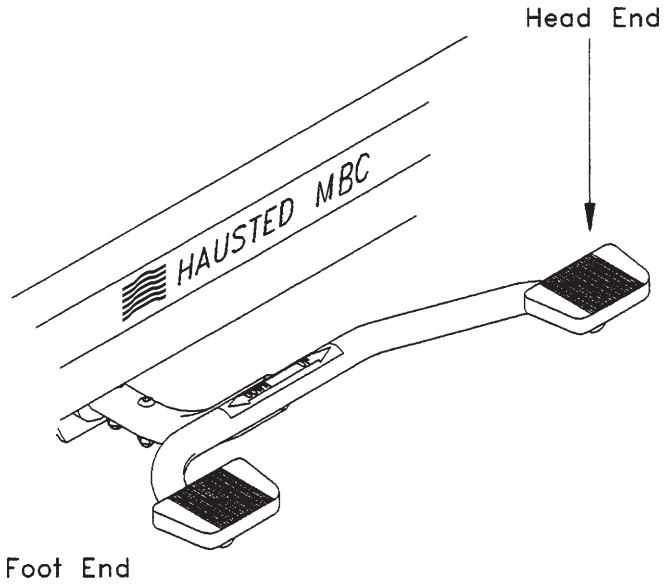


Figure 3-5

3.2.2 Lowering The Unit

To lower the unit, depress and hold the DOWN pedal. (See Figure 3-6.)

NOTE: *Pedals are located on both sides of the unit.*

When the unit reaches the desired height, return the pedal to its original position.

NOTE: *Do not stand on the pedal.*

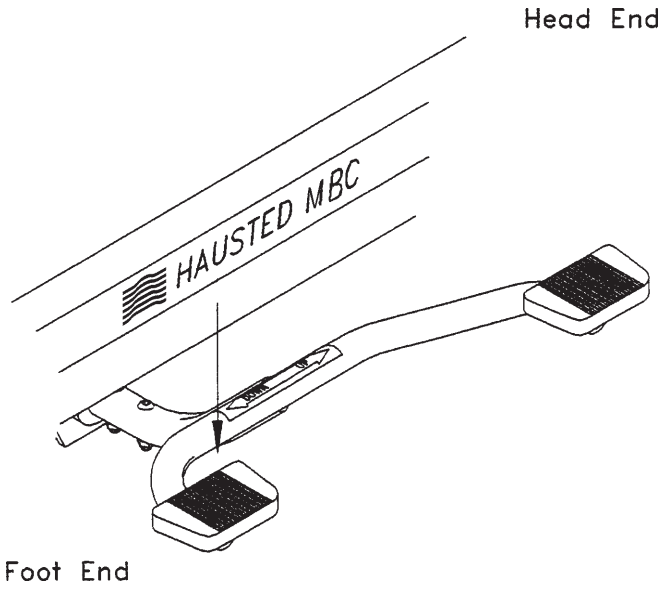


Figure 3-6

3.2.3 Top Adjustment

To adjust the unit anywhere from the chair position to the stretcher position grasp the RECLINE handle, (A), and adjust the unit to the desired position and release the handle. (See Figure 3-7.)

3.2.4 Trendelenburg Adjustment

To adjust the unit into the trendelenburg position the unit must be in the CHAIR position. Grasp the TRENDELENBURG handle, (B), and adjust the unit into trendelenburg and release the handle. (See Figure 3-7.)

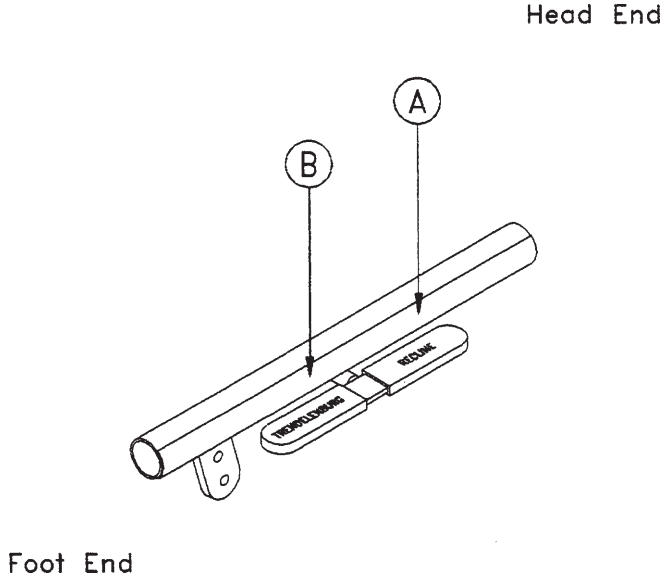


Figure 3-7

4.1 C.P.R./Surgical Support Leg (Accessory Number APC025)

4.1.1 Field Installation Instructions (Figure 4-2)

⚠ WARNING – TIPPING HAZARD: The C.P.R/ Surgical Support Legs should be used at any time when the unit is in the horizontal position, as shown in Figure 4-7.

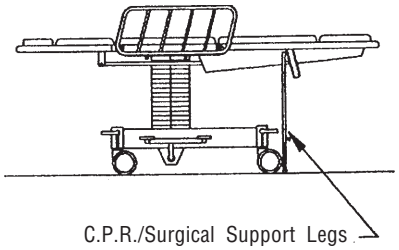


Figure 4-1

Tools needed: regular screwdriver, 5/32" Allen wrench, 7/16" socket wrench.

Step 1: Remove the 4 screws used to mount the A.P.C. Push Bar.

Step 2: Mount Item 1 (C.P.R. Leg Assembly) to the A.P.C. on the left and the right side of the chair, on the inside of the Push Bar Ears as shown, using Item 2 (.250-20 x .750 Hex Head Cap Screw). Before installing, apply 2 or 3 drops of #262 Loctite[1] to the threads.

Step 3: Peel backing off of Item 3 (Velcro[2] Hook) and Item 4 (Velcro Pile) and place adhesive sides together.

Step 4: Remove the #6 x .250 sheet metal screw, as shown.

Step 5: With pile side up on Velcro, place over hole on the tube, push the screw through the Velcro and screw into the tube.

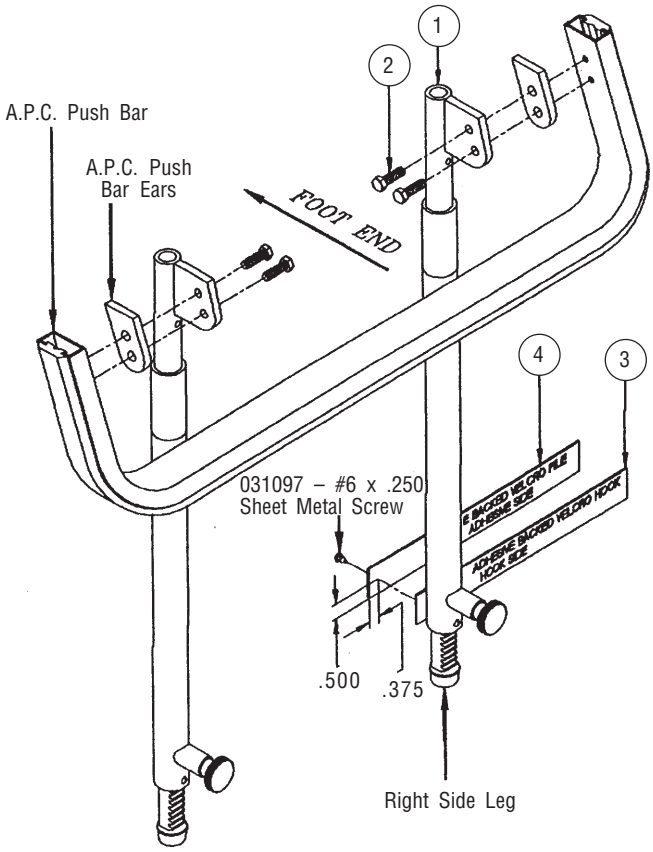


Figure 4-2. C.P.R/Surgical Support Leg (Accessory Number APC025)

1. *Loctite® is a registered trademark of Henkel Technolgies.*
2. *Velcro® is a registered trademark of Velcro Industries B.V.*

4.1.2 Operating Instructions (Figure 4-3)

C.P.R. Use -

Step 1: Pull the Velcro away from the tubes.

Step 2: Adjust the MBC to the desired horizontal position. The legs will automatically hinge into position and lock.

Step 3: Pull the knob out and allow the rack to slide until it makes contact with the floor. Release the knob to engage the lock.

Step 4: Ensure the knob is locked into position by pushing down on the head end of the unit. No slippage of the rack should occur.

Step 5: The legs are now ready for use, insuring rigid stability.

Storage -

Step 1: Pull the knob and slide the rack until it is fully retracted. Release the knob.

Step 2: Push the Slide Collar up and fold the legs inward,

Step 3: Wrap the Velcro around both legs and stick it against itself.

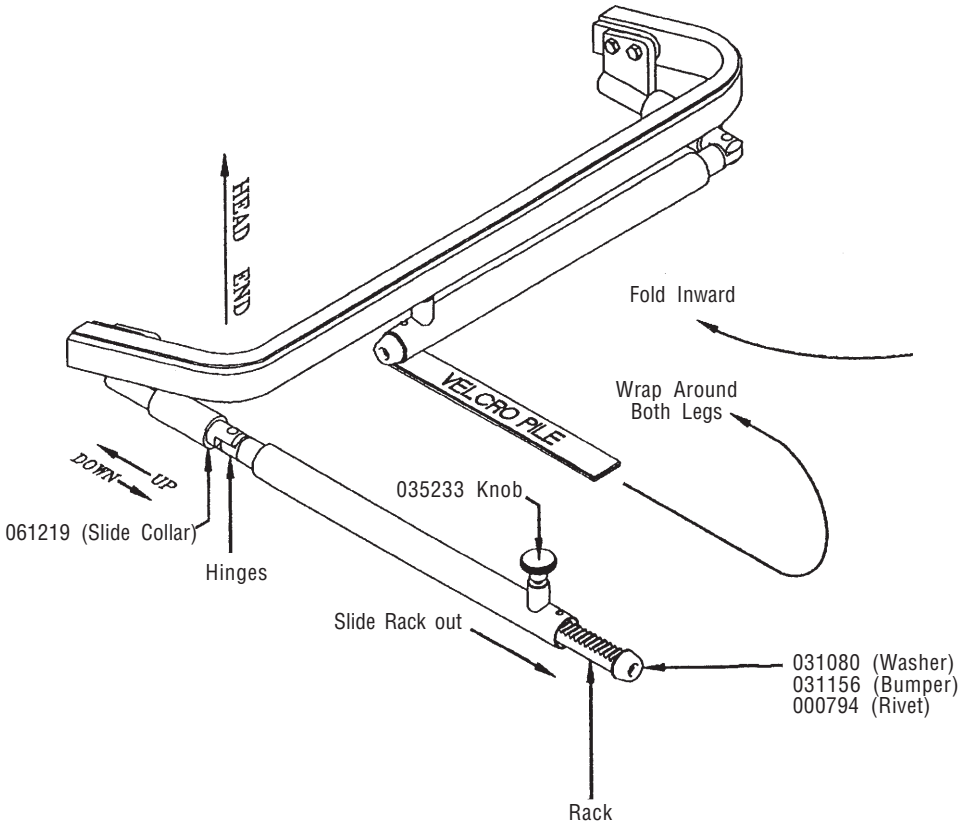


Figure 4-3. C.P.R/Surgical Support Leg (Accessory Number APC025-00)

Procedure	Schedule	Material
Lubricate all moving and sliding parts and hinge points.	6 Months	Lubricating oil, light-duty grease, wax stick lubricant or Never-Seez lubricant.
Inspect all fasteners to ensure proper fit, position and tightness (including nuts, bolts, etc.).	3 Months	Rachet with the proper size socket wrench and screwdriver.
Cleaning mattresses and pads	Periodically	Medium strength cleaners, soap, and water. (DO NOT pressure clean or steam clean.)
Inspect all surfaces and remove any user developed sharp or burred areas. Apply touch-up paint where required.	Periodically	Metal file and touch-up paint. When ordering paint, specify color.
Clean external surface to remove blood, dirt, lint, and any other deposits. (Cleanliness should be part of user maintenance.)	Periodically	Any medium strength anti-bacterial cleaners.

NOTE: *If units are pressure washed or steam cleaned, lubrication of all hinging, moving, and sliding points should be done afterwards. (Pressure washing and steam cleaning are not recommended procedures and can void warranty.)*

For more details information, please contact:

STERIS Corporation at:

1-800-333-8828

OPTIONAL ACCESSORIES

6

Part Number	Description
APC012-00	Restraint Straps
APC14D-00	Oxygen Tank Holder
000018-00	Telescoping I.V.Rod
APC020-00	Patient Tray
APC025-00	Surgical Support Legs (Recommended Accessory)
APC026-00	Stirrups
061239-00	Armboard with 1" Pad (Reclined Position)
065990-00	Armboard with 1" Pad (Seated Position)
SA0671-00	Dorsocervical Pillow (Qty. 1)
SA0716-00	Patient Safety Strap with Velcro, Extra Wide (Qty. 1)

RECOMMENDED REPLACEMENT PARTS

7

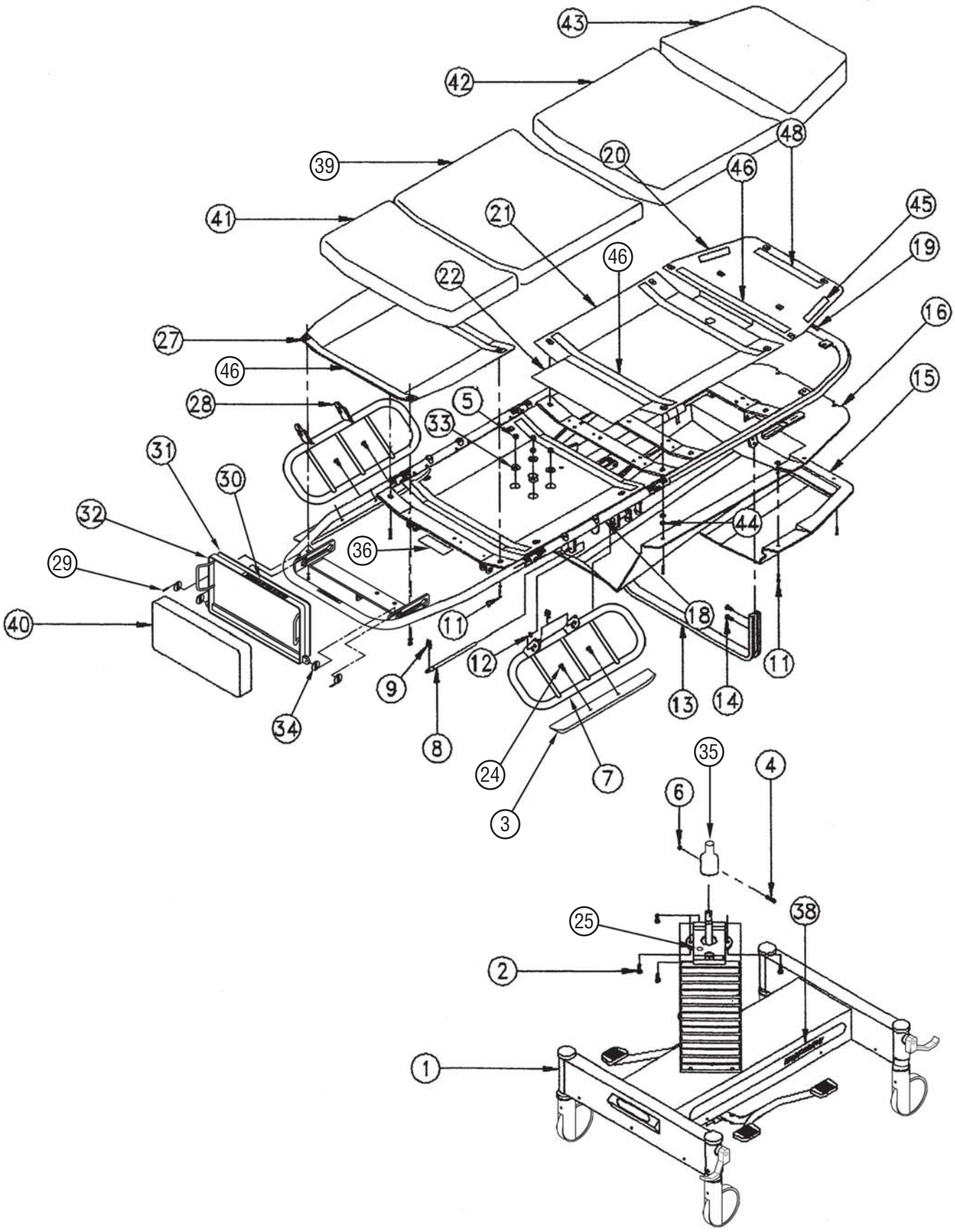


Figure 7-1. MBC Final Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-1-			**MBC FINAL ASSEMBLY**	**X**
1	066840		ASSEMBLY, MBC Base	1
2	031012		SCREW, Hex Head Cap, 0.313-18 x 1.00" Long	4
3	068058		PAD, Rail	2
4	062128		SCREW, Button Socket Head Cap, 0.250-20 x 1.250" Long	1
5	031057		NUT, Lock, 0.313-18	
6	031055		NUT, Lock, 0.250-20	1
7	068670		WELDMENT, Fluoro Side Rail, Right	1
8	061092		ROD, Rail Pivot	2
9	061125		WASHER, Removable Retaining	4
10			Not Used	
11	031500		SCREW, Truss Head Machine, #10-24 x 1.000" Long	12
12	035115		WASHER, Nylon, 0.750" O.D. x 0.395" I.D.	10
13	061019		BAR, Push	1
14	031337		SCREW, Hex Head Cap, 0.250-20 x 0.750" Long	4
15	061142		HOLDER, Chart	1
16	061139		COVER, Back	1
17			Not Used	
18	068039		WELDMENT, Seat	1
19	061198		LABELS, Head & Foot Warning	2
20	061062		PLATE, Head Pad Support	1
21	061057		PLATE, Back Support	1
22	061191		COVER, Seat Back Vinyl	1
23			Not Used	
24	068059		SCREW, Pan Head, #10-32 x 1-1/4" Long	4
25	061288		PLATE, Bellows Top	1
26			Not Used	
27	068072		PLATE, Leg Pad Support	1
28	068671		WELDMENT, Fluoro Side Rail, Left	1
29	061458		PIN, Spring, 0.125 x 0.750"	2
30	061141		LABEL, Foot Rest Warning	
31	068113		MAT, Foot Rest	
32	068060		WELDMENT, Foot Rest	
33	031080		WASHER, Flat, 0.313"	4
34	068063		WASHER	4
35	067354		SEAT, Mounting Boss	1
36	031457		LABEL, Serial Number	1
37			Not Used	
38	075855		LABEL, Mammography Chair	2
39	12966C		PAD, Chair Seat, Mauve	1
40	12966I		PAD, Chair Foot, Mauve	1
41	12966K		PAD, Chair Leg, Mauve	1
42	12966J		PAD, Chair Back, Mauve	1
43	12966D		PAD, Chair Head, Mauve	1
44	061161		SPACER	6
45	061006		PILE, Velcro, 4.00"	2
46	061007		PILE, Velcro, 18.00"	7
47			Not Used	
48	061051		PILE, Velcro, 11.00"	2

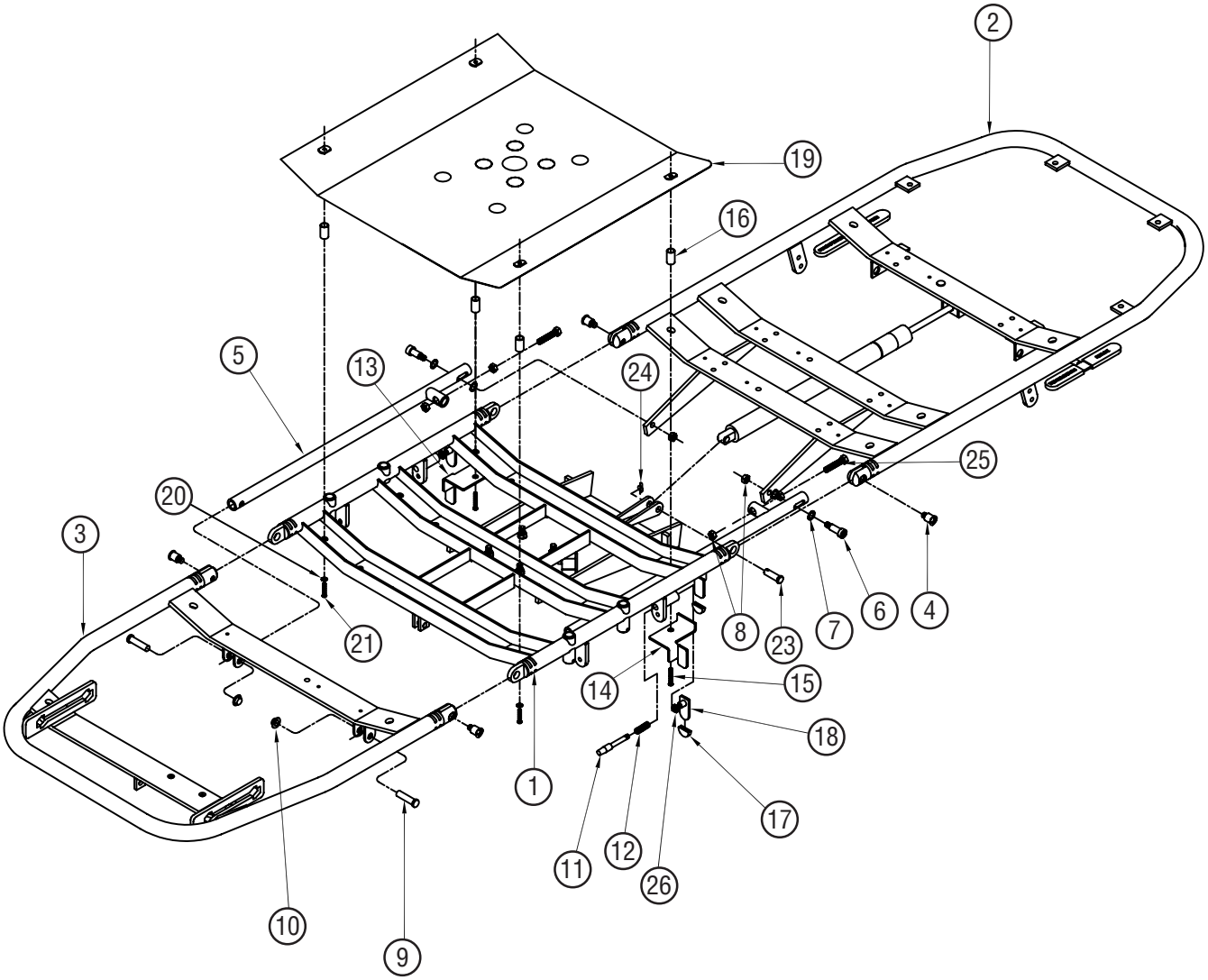


Figure 7-2. MBC Top Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-2-			**MBC TOP ASSEMBLY**	**X**
1	068039		WELDMENT, Seat Section	1
2	061011		WELDMENT, MBC Back Section	1
3	068030		WELDMENT, Leg Frame	1
4	031036		SCREW, Phillips Oval Head, 0.313-24 x 0.938" Long	4
5	067288		WELDMENT, Connecting Link	2
6	061157		BOLT, Shoulder, 0.375" x 1.000" Long	2
7	035115		WASHER, Nylon, 0.750" O.D. x 0.395 I.D"	6
8	031057		NUT, Lock, 0.313-18	6
9	011318		PIN, Clevis, .375" x 1.438"	2
10	030287		NUT, Pal, 0.375"	4
11	061101		PLUNGER	2
12	052763		SPRING, Plunger	2
13	061172		PLATE, Stationary Trigger, Left	1
14	061174		PLATE, Stationary Trigger, Right	1
15	061194		SCREW, Truss Head Machine, #10-24 x 1.250" Long	2
16	052275		SPACER	4
17	061091		TAB, Vinyl, Red	4
18	061067		ASSEMBLY, Trigger Plate	2
19	061148		PLATE, Seat Cushion Support	1
20	031364		WASHER, SAE, Flat, 0.250"	2
21	031500		SCREW, Truss Head Machine, #10-24 x 1.000" Long	2
22			Not Used	
23	075627		PIN, Gas Spring Hinge	1
24	065258		PIN, Locking Cotter	1
25	061350		SCREW, Hex Head Cap, 0.313-18 x 1.500" Long	2
26	068784		NUT, Free Jam, 1/4-20	2

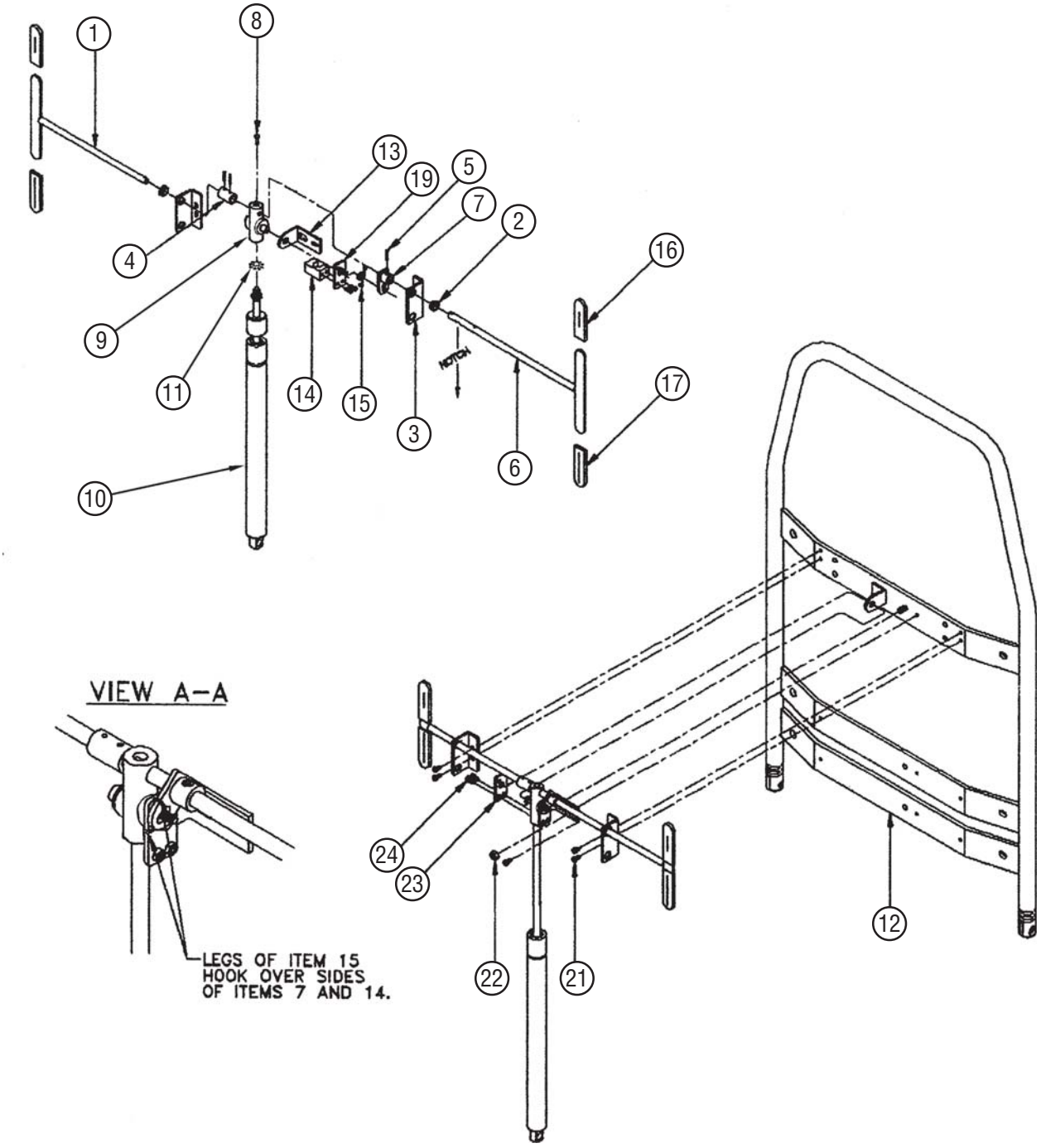


Figure 7-3. MBC Back Section Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-3-			**MBC BACK SECTION ASSEMBLY**	**X**
1	061073		WELDMENT, Trendelenburg Handle, Right	1
2	061089		NYLINER, Thompson, Flange	2
3	061042		ANGLE, Handle Support	2
4	061084		CONNECTOR, Handle	1
5	031111		PIN, Spring, 0.125" x 0.625" Long	3
6	061076		WELDMENT, Trendelenburg Handle, Left	1
7	061078		WELDMENT, Trendelenburg Trigger Plate	1
8	061153		PIN, Actuator	1
9	068701		CASTING, Actuator	1
10	062652		ASSEMBLY, Gas Spring	1
11	068702		WASHER, External, Tooth, Lock, 0.375"	1
12	061011		WELDMENT, Back Section	1
13	061152		EAR, Spring Pivot	1
14	061083		BLOCK, Trendelenburg Stop	1
15	061063		SPRING, Trendelenburg Release	1
16	061070		CAP, Vinyl, Green	2
17	061071		CAP, Vinyl, Red	2
18			Not Used	
19	061099		WELDMENT,Trendelenburg Stop Plate	1
20			Not Used	
21	061037		SCREW, Self Tapping, #10-24 x 0.375" Long	5
22	031057		NUT, Lock, 0.313"	1
23	061082		PLATE, Trendelenburg Stop	1
24	031014		SCREW, Socket Head Cap, #10-4 x 0.375" Long	4

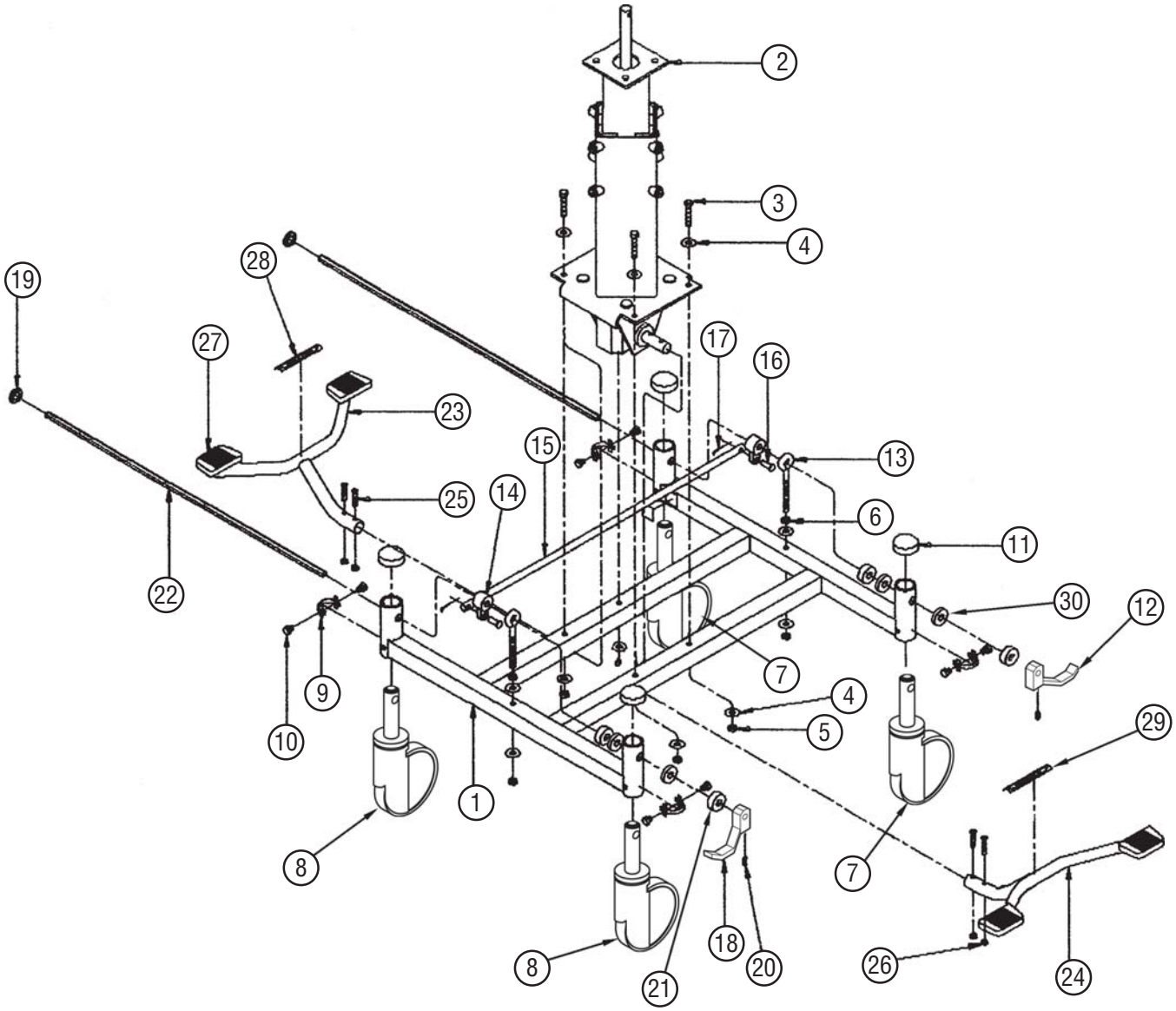


Figure 7-4. MBC Base Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-4-			**MBC BASE ASSEMBLY**	**X**
1	066898		WELDMENT, MBC Base Frame	1
2	068028		ASSEMBLY, Column	1
3	031334		SCREW, Hex Head Cap, 0.313-18 x 2.000" Long	4
4	031076		WASHER, Flat, 0.313"	12
5	031057		NUT, Lock, 0.313-18	6
6	031058		NUT, Free Thread, 0.313-18	2
7	076531		CASTER, Total Lock	3
8	076530		CASTER, Steer Lock	1
9	062659		PLATE, Caster Bolt Lock	4
10	062685		BOLT, Hex Head, M8 x 1.250" x 12.000" Long	8
11	062666		CAP, Caster Stem	4
12	069192		PEDAL, Steer Head	1
13	062688		BOLT, Eye, 0.313-18 x 4.063" Long	2
14	062684		LINK, Cam, Short	2
15	066837		LINK, Connecting	1
16	060018		PIN, Link	2
17	068417		CLIP, Rue	2
18	066826		PEDAL, MBC Brake Foot	1
19	062683		CAP, Starlock	2
20	031101		SCREW, Knurl Point Set, 0.250-20 x .500" Long	2
21	011422		COLLAR, Crank Shaft Worm	4
22	066902		ROD, Hex Brake, Long	2
23	069417		ASSEMBLY, Pump Pedal w/Pads, Left	1
24	069416		ASSEMBLY, Pump Pedal w/Pads, Right	1
25	062128		SCREW, Button Socket Head Cap, 0.250-20 x 1.250" Long	4
26	031055		NUT, Lock, 0.250-20	4
27	061164		PAD, Pump Pedal	4
28	061228		LABEL, Pump Pedal, Right	1
29	061229		LABEL, Pump Pedal, Left	1
30	055119		WASHER, Nylon	4

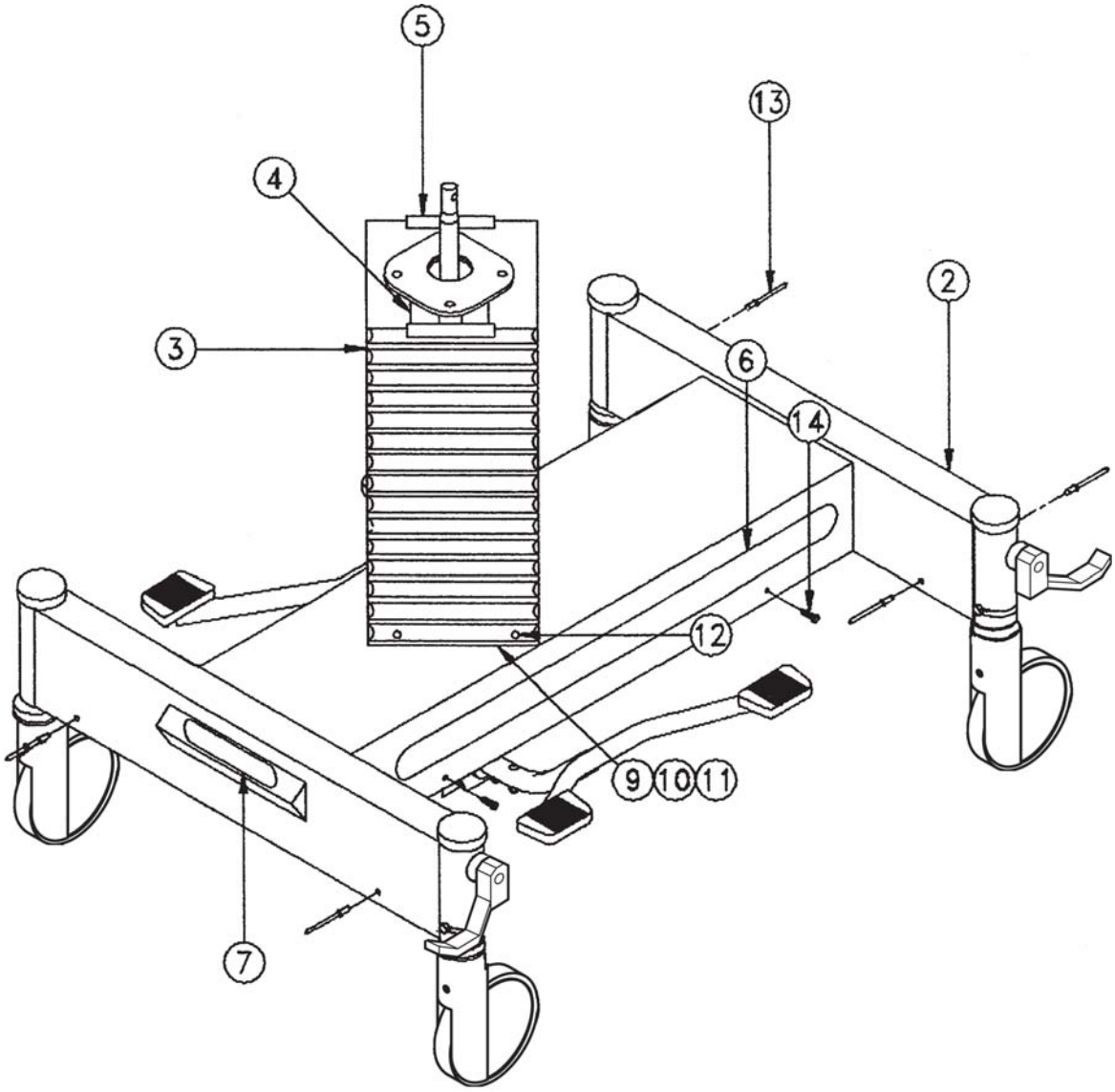
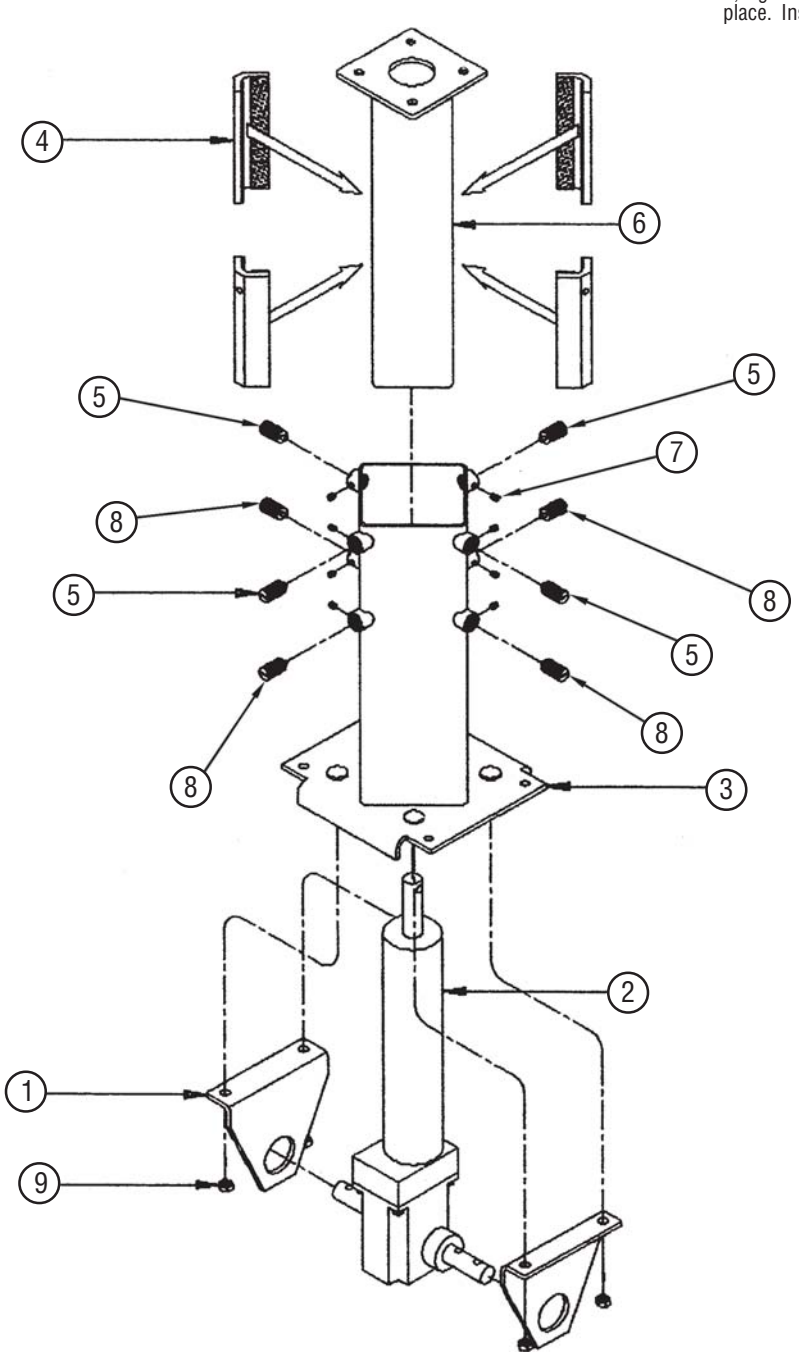


Figure 7-5. MBC Base Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-5-			**MBC BASE ASSEMBLY**	**X**
1			Not Used	
2	066900		ASSEMBLY, End Cover	2
3	061261		BELLOWS, MBC	1
4	066844		CLIP, Bellows	2
5	000849		TIE, Cable	4
6	075855		LABEL, MBC Chair	2
7	075843		LABEL, Product	2
8			Not Used	
9	P61379		ASSEMBLY, Bellows Mounting Angle	1
10	061167		HOOK, Velcro, 4.00"	2
11	061166		PILE, Velcro, 5.00"	2
12	065129		CLIP, Bellows	4
13	000794		RIVET, Pop, 0.188" x 0.125" Long	8
14	031416		SCREW, Self-Tapping, #10-24 x 0.500" Long	4

After assembly, Item 6 is to be centered within Item 3, tighten Item 5 down until Item 6 is held firmly in place. Install Item 7, but do not tighten down.



NOTE: *Apply No.2 Moly Grease to Item 4 before assembly.*

Item Numbers are listed in order of assembly.

Figure 7-6. Column and Pump Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-6-					**COLUMN AND PUMP ASSEMBLY**	**X**
1		P61121			HANGER, Hydraulic Jack Support	2
2		061122			MEDIJACK	1
3		P61117			WELDMENT, Square Outside Column	1
4		066178			SUPPORT, Short Glide	4
5		061116			SCREW, Column Guide w/Point	4
6		068048			WELDMENT, Inside Column	1
7	P	150830	573		SCREW, Nylon Point Socket Set, #1/4-20 x 0.250" Long	8
8		068199			SCREW, Column Guide, without Point	4
9		031057			NUT, Lock, 0.313-18	4